

DGM-102

Digital Gaussmeter (Basic Model)

- Mag. Field Measurement
- Excellent Linearity
- IC Controlled Circuit
- Excellent Stability

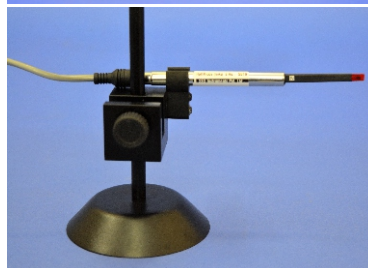


Introduction

DGM-102 operates on the principle of Hall Effect in Semiconductors. A semiconductor carrying current develops an electromotive force, when placed in a magnetic field, in a direction perpendicular to the direction of both electric current and magnetic field. The magnitude of this e.m.f. is proportional to the field intensity, if the current is kept constant. This e.m.f. is called the Hall Voltage. The small Hall Voltage is amplified through a high stability amplifier so that a millivoltmeter connected at the output of the amplifier can be calibrated directly in magnetic field unit (gauss).

Applications

- Wide application in industry where accurate measurements of magnetic field is required.
- Measurement of steady magnetic field e.g. in loud speakers, dynamos, moving coil instruments etc.



- Useful in laboratory experiments involving electromagnets.

Specifications

Range	: 0-2KG & 0-20KG
Resolution	: 1G at 0-2KG range
Accuracy	: $\pm 0.5\%$
Temperature	: Upto 50°C
Display	: 3½ digit, 7 segment LED DPM with auto polarity and overflow indication
Power	: 220V $\pm 10\%$, 50Hz
Transducer	: Hall Probe – GaAs
Special Feature	: Indicate the direction of the magnetic field
Weight	: 3Kg
Dimensions	: 280mm X 255mm X 120mm